

U. S. Geological Survey Open-File Report 80-624  
Mid-Atlantic multichannel seismic-reflection profiles 14, 15, 16 and 17

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The U. S. Geological Survey (USGS) is making available four multichannel profiles collected by Teledyne Exploration in 1977 by means of a 48-channel streamer (3600 m long) and four airguns (2160 in<sup>3</sup>). Profiles 15 and 16 were processed by Teledyne Exploration and profiles 14 and 17 were processed on the Phoenix "I"\* computer by the USGS. The processing included standard demultiplexing, deconvolution before and after stack, Common Depth Point (CDP) gathers, velocity analyses every 3 km, move-out correction, stacking, time-variant filtering, and time-variant scaling.

The released lines are over the outer edge of the Continental Shelf in the northern part of the Baltimore Canyon trough (fig. 1) (Line 14: 140 km long and Line 15: 157 km long), over the Long Island platform (Line 16: 313 km long), and over the Carolina platform (Line 17: 186 km long). These profiles were collected as a part of a regional grid over offshore Atlantic sedimentary basins in a continuing program to assess the resource potential by means of nonproprietary data.

These profiles, plus the velocity scans and shotpoint maps, may be viewed at U. S. Geological Survey, Quissett Campus, Woods Hole, MA. 02543, and U. S. Geological Survey, Bldg. 25, Denver Federal Center, Denver, CO. Copies of maps, scans, and profiles can be purchased only from the National Geophysical Solar-Terrestrial Data Center, Environmental Data Service (NOAA), Code D 621, Boulder, CO 80302.

\* Use of tradenames in this report is for descriptive purposes only and does not constitute endorsement by the U. S. Geological Survey.